







ABOUT A SCIENTIFIC TEAM

llya Tarasov



Chemical technology in polymer chemistry

Igor Sirotin



Polymer chemistry Ph.D. 27 articles 3 patents

Denis Onuchin



Chemical engineering for the processing of plastics and composites, Ph.D.

ABOUT A DEVELOPMENT BASE

D.I. Mendeleev University of Chemical Technology of Russia



Scientific consultants - 6 doctors of science
Personnel - postgraduates and undergraduates



Acceleration program in 2019 for high-tech chemical projects



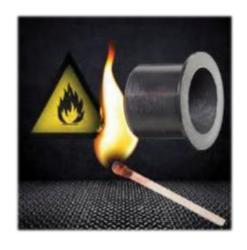
LLC "Polyofit" small innovative enterprise (SIE) at D.I. Mendeleev University



PLASTIC WORLD ALL AROUND



WE CREATE BETTER POLYMERS



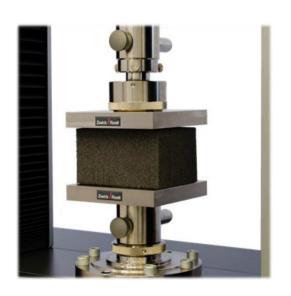
OUR POLYMERS



Effective

Green





ABOUT MATERIALS WE DESIGN

We design and manufacture modifiers that improve the mechanical and thermal features of most polymers.



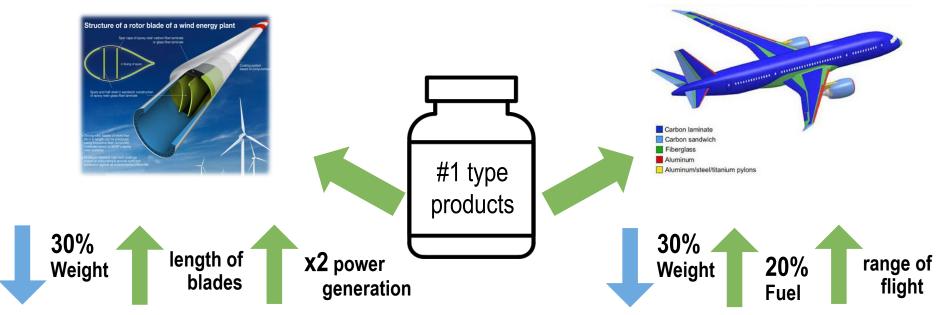
Polymer with NEW features

AREAS OF APPLICATION product #1

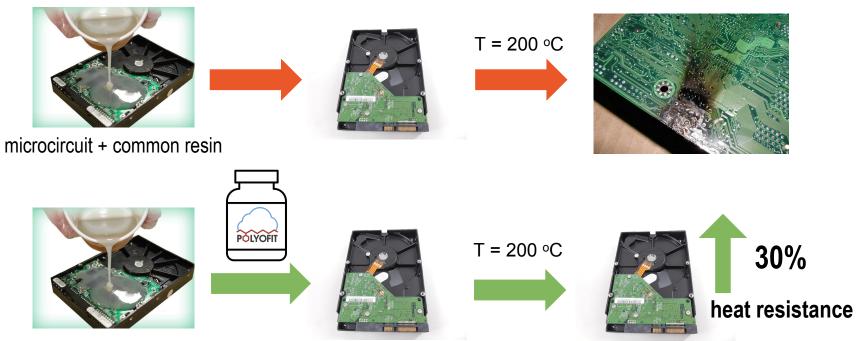




May be used as additive and as base polymer

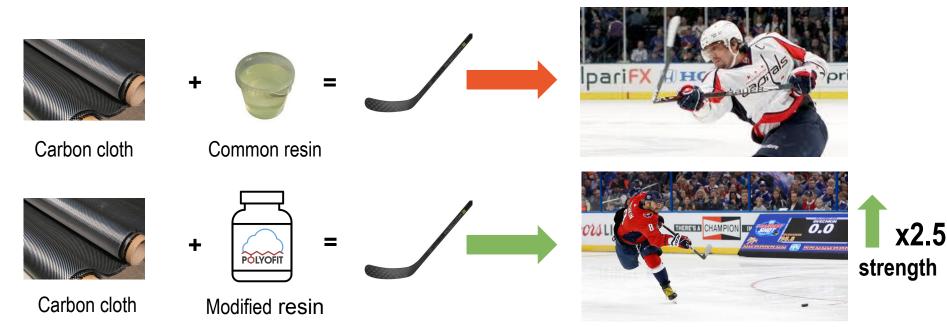


WHAT WE HAVE ACHIEVED product #1



microcircuit + modified resin

WHAT WE HAVE ACHIEVED product #1

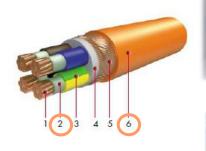


WHAT WE CAN DO

product #2





















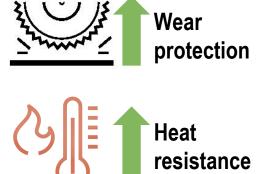
WHAT WE CAN DO products #3, #4, #5











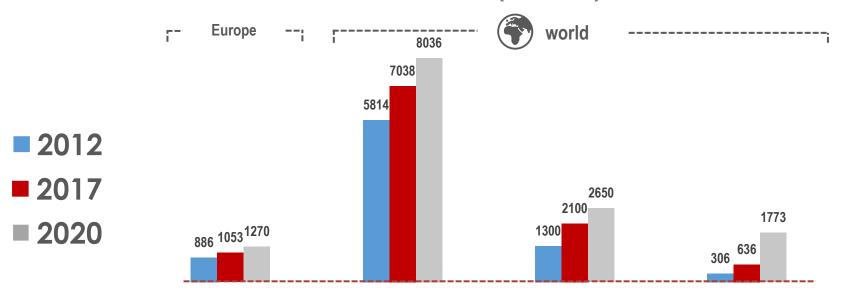






#5

VOLUME OF TARGET MARKETS (mln. \$)



MODIFIER

BASIC MARKETS

#1 and #2

components of composites:
epoxy resins;
aromatic amines

#3 and #4

phosphoruscontaining flame retardants #5

photocurable resins: dentistry, 3D printing₁₂

COMPETITIVE SITUATION IN THE WORLD: MODIFIED EPOXY RESINS

MODIFIED EPOXY RESINS

Fire resistance

Manufacturability/usability

Heat resistance

Durability

ACM 1412 (UMATEX)

No data

Medium

Medium

High

KDP-550MC65 (KukDo Chem.)

High

Medium

Low

High

ER2218

High

High

Medium

No data



High

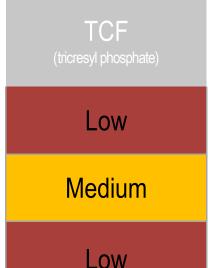
COMPETITIVE SITUATION IN THE WORLD: FIRE RETARDANT

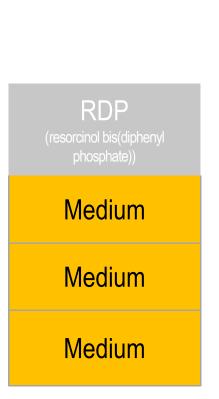
FIRE RETARDANT

Material heat resistance

No side effects

Effective dose







IP STATUS

